

Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus ~~for controlling~~ to control an inclined angle of an AV front panel with respect to an AV rear panel ~~for automobile~~ by means for converting a driving force of ~~the a~~ an incline angle controlling motor into a linear movement, comprising:

an inclining unit to transfer a rotational force to the AV front panel to incline ~~means for inclining the AV front panel without a separate trajectory for inclining of the front panel;~~

a rotation means for transmitting rotating force ~~unit to transfer a rotational force of a motor to the inclining means~~ unit for the sake of inclination of ~~to incline the AV front panel;~~ and

~~means for an opening and closing unit to couple with the inclining unit to open and close the AV front panel as a result of~~ in response to a combination of the transferred rotational force action of the inclining means, the rotation transmitting means-unit and the linear movement of the converting means.

2. (Currently Amended) The apparatus as set forth in claim 1, ~~in which~~ wherein the ~~rotating force rotation transmitting means-unit~~ comprises:

a worm fixed to the motor by a shaft, such that the motor rotates the worm to a motor for opening and closing ~~open and close the front panel, said motor being capable of by rotating in opposite first and second directions, respectively and having a worm fixed at a shaft thereof;~~

a worm gear engaged with the worm and having a concentric sub-gear integrally formed thereat; and

a gear engaged with the worm gear.

3. (Currently Amended) The apparatus as set forth in claim 1, ~~in which~~ wherein the ~~rotating means~~ inclining unit comprises a sector gear engaged with the gear of the ~~rotating rotation force transmitting means-unit~~ and having a protrusion at its side.

4. (Currently Amended) The apparatus as set forth in claim 1, ~~in which~~ wherein: the opening and closing ~~means-unit~~ comprises: an arm link, comprising:

~~having~~ a guide hole with an opening at a first end thereof,
~~and a long hole, the long hole receiving to receive~~ a shaft of the gear of the ~~rotating~~
~~rotation force-transmitting means-unit~~ therein such that the arm link is rotatable about the shaft and
slidable on the shaft, ~~and the guide hole having an opening, the arm link also having at its outer end~~
a pin hingedly connected to an upper part of the front panel; and
the AV rear panel comprises an upright guide-trajectory hole having an opening at its lower
end such that the pin of the arm link enters the opening and slides along the upright ~~guide-trajectory~~
hole.

5. (New) An apparatus to control a movement of an AV front panel with respect to a stationary AV rear panel, comprising:

an arm link rotatably fixed to the AV front panel at a first end thereof to direct the movement of the AV front panel along a predetermined trajectory and to slide along a fixed axis and rotate thereabout at a second end thereof;

an inclining unit to control a rotation of the arm link;

a transmitting unit to transmit a first rotational force to the inclining unit; and

a converting unit to control an angle of inclination of the AV front panel.

6. (New) The apparatus of claim 5, wherein the transmitting unit comprises:

a rotating gear to rotate in a first rotational direction to cause the inclining unit to couple to the arm link such that the arm link rotates along the fixed axis in the first rotational direction.

7. (New) The apparatus of claim 6, wherein:

the inclining unit comprises a rotatable sector gear with a protrusion at a periphery thereof;
and

the arm link comprises a protrusion guide to engage with the protrusion at a predetermined rotational junction of the sector gear and the arm link in order to continue the rotation of the arm link in the first rotational direction.

8. (New) The apparatus of claim 5, wherein:

the stationary AV rear panel comprises a trajectory hole formed along the predetermined trajectory at a side portion thereof; and

the arm link comprises a trajectory pin to move within the trajectory hole to direct the

movement of the arm link and the AV front panel.

9. (New) The apparatus of claim 8, wherein the trajectory pin disengages from the trajectory hole at a predetermined point to allow the AV front panel to move to a position parallel to the stationary AV rear panel.

10. (New) The apparatus of claim 5, wherein the converting unit comprises:
a slide plate to linearly reciprocate along a horizontal axis to control the angle of inclination of the AV front panel;
a plurality of gears to control the reciprocating movement of the slide plate; and
a motor to transfer a second rotational force to the plurality of gears.

11. (New) The apparatus of claim 10, wherein the horizontal axis of the slide plate is perpendicular to the AV front panel in a closed position and parallel to the AV front panel in an open position.